Finding the Info that scientists need

Narrow or broad

2 main questions:

 improvements to preprints?

 Large datasets, videos, etc

 Demonstration of method by video

 New ways to represent data

 Different than representation in journal

 Any difference btw preprint and journal?

 Tools and eval methods to help readers find preprints

 To address topic, significance and novelty

Opportunity to set up preprints as something completely new?

How to navigate world of information from a scientist’s perspective?

Digestability of new info: what’s worth reading and not worth reading?

Science is not defined narrowly, how are you going access all the info you need?

Make preprints more accessible as distinct from journal articles

Danger of burrowing down and limiting information access

If want to maintain wide access, what filters do you incorporate to find out what you should read

 Use successful websites with strong internet presence as paradigm for filter

 NYTimes, Amazon

 Curates information

 Who’s reading what

 What’s being downloaded

 What’s been tweeted

 What’s been on facebook

 But then problems with these sites might portend issues with biorXiv

 Algorithms that affects what you see?

 Already reflected by bias inherent in science

 Issues of gatekeepers?

Who’s gonna pay for this?

Filters:

 RSS by topic, PI, funding sources, who has commented

 Search like in pubmed

How are you going to find what you don’t think you need to find?

Maintain format of paper to allow accessibility

Using networks to help filter

Use of commentaries and commenting to filter

 Online journal club to articulate main points of paper

 Involve trainees?

 Similar to Hendrick’s ideas abt using law review journals as model

 How to incentivize

Identifiers to standardize metadata and tagging

Without journals as gatekeepers how do we find the papers we need and don’t even know what we need

Function of bioarXiv that speaks to discovery: channels

 Defined by investigator

Picks add’l papers and contact corresponding au to have them bundled and presented as member of channel

 Defined as area of interest

 Reverse of journal: find papers already publ’d to bundle into area of interest

Opportunity to have someone else build tools and apps to deal with discovery

Make individual figures, videos and datasets searchable

 Convert to xml but costs: premium service to reformat